

International Application No. PCT/BE03/00129  
Attorney Docket: VANP3003/JEK

### LIST OF CURRENT CLAIMS

1. (Currently Amended) Compressor containing a compressor element (1) which is provided with comprising a rotor chamber (2) onto which are connected to an inlet pipe (3) and an outlet pipe (4); a reservoir (7) in communication with the outlet pipe (4); a pressure regulating system (8) comprising including an inlet valve (9) associated with erected in the inlet pipe (3); a piston (23) which is connected to the inlet valve (9) and which can be moved is movable in a cylinder (24); a bridge (14) bridging said inlet valve (9) and in which, between the inlet pipe (3) and the rotor chamber (2), are successively erected mounted a gas stream limiter (15) and a non-return valve (16) which only admits gas into the rotor chamber (2); a gas pipe (17) connecting the reservoir (7) to the part of the bridge (14) situated between the gas stream limiter (15) and the non-return valve (16); and a relief valve (18) associated with erected in said gas pipe (17), characterized in that wherein the piston (23) is a double-acting piston which divides the cylinder (24) in into two closed cylinder chambers (25, 26); in that the cylinder chamber (25), on the a side facing turned away from the inlet valve, is connected to a part (13) of the rotor chamber (2) located situated near the inlet valve (9) via a pipe (28); and in that, on the other side of the piston (23), the cylinder chamber (26) is connected to a part (13) of the rotor chamber (2) situated near the inlet valve (9) and to the non-return valve (16) via a pipe (29).
2. (Currently Amended) Compressor according to claim 1, characterised in that wherein the pipe (28) connecting the cylinder chamber (25) on the side which is turned away from the inlet valve (9) to a part (13) of the rotor chamber (2) situated near the inlet valve (9) as such forms the connection (27) between the piston (23) and the inlet valve (9).
3. (Currently Amended) Compressor according to claim 2, wherein characterised in that the connection between the piston (23) and the inlet valve (9) consists of comprises a stem (27) provided with a duct (34) extending over its entire length.

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4. (Currently Amended) Compressor according to claim 1, wherein ~~any of the preceding claims, characterised in that~~ the relief valve (18) is comprises a pneumatic valve which is equipped with a spring (21) and which is connected by a pipe (22) which is directly connected to the reservoir (7) and a control line (20) which is also connected to said reservoir (7) via a control valve (19).
5. (Currently Amended) Compressor according to claim 4, wherein ~~characterised in that~~ the control valve (19) is an electromagnetic valve.
6. (Currently Amended) Compressor according to claim 1, wherein ~~any of the preceding claims, characterised in that~~ the inlet valve (9) includes has a housing (12) forming a common housing (30) with the cylinder (24).